




09/855,797  
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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
Stylesheet Version v18.0

Title of Invention	Recombinational Cloning Using Nucleic Acids Having Recombination Sites																																																																	
<p>Application Number: 09/855797 </p> <p>Confirmation Number: 2106</p> <p>First Named Applicant: James Hartley</p> <p>Attorney Docket Number: 0942.285000G/RWE/BJD/JKM</p> <p>Art Unit: 1636</p> <p>Examiner: <del>William Sandals</del> <i>Gerald Letters</i></p> <p>Search string: ( 4626505 or 4683195 or 4683202 or 4965188 or 5093257 or 5102797 or 5159062 or 5334375 or 5334575 or 5348886 or 5378618 or 5527695 or 5605793 or 5650557 or 5728551 or 5801030 or 5814300 or 5837458 or 5962255 or 5981177 or 6040430 or 6063627 or 6080576 or 6225121 or 6262341 or 6270969 or 6271436 or 6277608 or 6361972 or 6365377 or 6410266 or 6410317 or 6436707 or 6066778 or 20020007051 or 20020068290 or 20030027337 or 20030100110 or 20020172997 or 20020192819 or 20030157716 or 20030064515 or 20030068799 or 20030157662 or 20030124555 or 20030077804 or 20030175970 or 20030186233 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4626505</td><td>1986-12-02</td><td>Falco</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>4683195</td><td>1987-07-28</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>4683202</td><td>1987-07-28</td><td>Mullis</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>4965188</td><td>1990-10-23</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>5093257</td><td>1992-03-03</td><td>Gray</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>6</td><td>5102797</td><td>1992-04-07</td><td>Tucker et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>7</td><td>5159062</td><td>1992-10-27</td><td>Knapp et al.</td><td></td><td></td><td></td></tr></tbody></table>			init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4626505	1986-12-02	Falco				<input type="checkbox"/>	2	4683195	1987-07-28	Mullis et al.				<input type="checkbox"/>	3	4683202	1987-07-28	Mullis				<input type="checkbox"/>	4	4965188	1990-10-23	Mullis et al.				<input type="checkbox"/>	5	5093257	1992-03-03	Gray				<input type="checkbox"/>	6	5102797	1992-04-07	Tucker et al.				<input checked="" type="checkbox"/>	7	5159062	1992-10-27	Knapp et al.			
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## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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<input type="checkbox"/>	7	20030157716	2003-08-21	Hartley et al.
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<input type="checkbox"/>	12	20030077804	2003-04-24	Byrd et al.
<input checked="" type="checkbox"/>	13	20030175970	2003-09-18	Hartley et al.
<input checked="" type="checkbox"/>	14	20030186233	2003-10-02	Chesnut et al.

Signature \* *All Considered*

Examiner Name	Date
<i>A. Lipp f.</i>	<i>3-22-04</i>



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3/22/04

09/855,797

Page 1 of 51

FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.285000G/RWE/BJD/JKM

APPLICATION NO.  
09/855,797

APPLICANT  
Hartley et al.

FILING DATE  
May 16, 2001

GROUP  
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
ADD	AL6	EP 0 220 009	04/29/1987	Europe	X	X	Yes
							No
	AM6	WO 90/11375	10/04/1990	WIDE PCT			Yes
							No
	AN6	EP 0 427 074	05/15/1991	Europe			Yes
							No
	AO6	WO 91/09957	07/11/1991	WIDE PCT			Yes
							No
ADD	AP6	WO 92/15694	09/17/1992	WIDE PCT			Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
ADD	AT	52	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," Nucl. Acids Res. 25:1781-1788, Oxford University Press (May 1997).

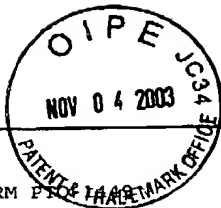
EXAMINER

*Donald A. Huff, Jr.*

DATE CONSIDERED

3-22-04

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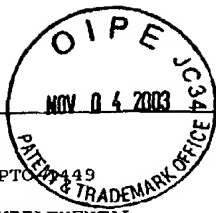
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	APPLICANT Hartley et al.	
	FILING DATE May 16, 2001	GROUP 1636

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AAO	AL7	EP 0 542 466 A2	05/19/1993	Europe	<del>CLASS</del>	<del>SUB-CLASS</del>	Yes No
	AM7	WO 94/03624 A1	02/17/1994	WIPO PCT			Yes No
	AN7	WO 94/18333	08/18/1994	WIPO PCT			Yes No
	AO7	WO 95/00555	01/05/1995	WIPO PCT			Yes No
AAZ	AP7	WO 96/04393	02/15/1996	WIPO PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AAZ	AR	63	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," <i>Mol. Cell. Biol.</i> 17:857-861, American Society for Microbiology (February 1997).
	AS	63	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences (September 2000).
AAZ	AT	63	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263-3269, Oxford University Press (July 1998).

EXAMINER <i>Arnold Schopf</i>	DATE CONSIDERED 3-22-04
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AA	AP8	WO 01/07572	02/01/2001	WIPO PCT	<del> </del>	<del> </del>	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AA	AR	64	Astumian, J.H., et al., "Site-specific Recombination Between Cloned attP and attB sites from the Haemophilus influenza Bacteriophage HP1 Propagated in Recombination Deficient Escherichia coli," J. Bacteriol. 171:1747-1750, American Society for Microbiology (1989).				
	AS	64	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press Limited (1993).				
AA	AT	64	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," Bio/Technology 2:1045-1049, Nature Pub. Co. (1984).				

EXAMINER <i>Sheep J.</i>	DATE CONSIDERED 3-22-04
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FORM PTO-1449

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	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAJ	AR	65	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (July 1996).
	AS	65	Barnes, G., and Rine, J., "Regulated expression of endonuclease EcoRI in Saccharomyces cerevisiae: Nuclear entry and biological consequences," Proc. Natl. Acad. Sci. USA 82: 1354-1358, National Academy of Sciences (1985).
AAJ	AT	65	Bauer, C.E., et al., "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," J. Mol. Biol. 181:187-197, Academic Press Inc. (1985).

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AA2	AR	66	Bernard, P., et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," J. Mol. Biol. 234:534-541, Academic Press, Inc. (1993).
↓	AS	66	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, MIT (1985).
AA2	AT	66	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (November 1997).

EXAMINER

*A. K. J.*

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FORM PTO-14

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AA2	AR	67	Brent, R., and Ptashne, M., "A bacterial repressor protein or a yeast transcriptional terminator can block upstream activation of a yeast gene," Nature 312: 612-615, Macmillan Journals Ltd. (1984).
↓	AS	67	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).
AA2	AT	67	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the Escherichia coli Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," Mol. Cell. Biol. 6:3059-3067, American Society for Microbiology (1986).

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AA2	AR	68	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).				
↓	AS	68	Cherepanov, P.P., and Wackernagel, W., "Gene disruption in <i>Escherichia coli</i> : Tc <sup>r</sup> and Km <sup>r</sup> cassettes with the option of FLP-catalyzed excision of the antibiotic-resistance determinant," <i>Gene</i> 158:9-14, Elsevier Science B.V. (1995).				
AA2	AT	68	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (1997).				

EXAMINER <i>S. Hupp</i>	DATE CONSIDERED 3-22-04
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AA2	AR	69	Chouluka, A., et al., "Transfer of single gene-containing long terminal repeats into the genome of mammalian cells by a retroviral vector carrying the cre gene and the loxP site," <i>Journal of Virol.</i> 70:1792-1798, American Society for Microbiology (1996).				
	AS	69	Chuang, C-F., et al., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (April 2000).				
AA2	AT	69	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1998).				

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FORM P

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AA2	AR	70	CLONTECH, "Creator" Gene Cloning & Expression System," CLONTECHniques 15:7-11, CLONTECH (April 2000).
↓	AS	70	CLONTECH, "New Additions to the Creator" Platform," CLONTECHniques 16:1-4, CLONTECH (January 2001).
AA2	AT	70	CLONTECH, "New Creator" -Compatible Expression Systems," CLONTECHniques 15:2 pages, CLONTECH (October 2000).

EXAMINER

*A. Hepp*

DATE CONSIDERED

3-22-04

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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000G/RWE/BJD/JKM	APPLICATION NO. 09/855,797
	APPLICANT Hartley et al.	
	FILING DATE May 16, 2001	GROUP 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	71	CLONTECH, "Creator" Acceptor Vector Construction Kits" CLONTECHniques 16:2 pages, CLONTECH (October 2001).
↓	AS	71	CLONTECH, "Creator" SMART™ Library Construction Kit," CLONTECHniques 16:2 pages, CLONTECH (October 2001).
↓ AA2	AT	71	CLONTECH, "Creator™: The Universal Platform for Analysis of Gene Function," Powerpoint Presentation, pp. 1-9, CLONTECH (July 24, 2001), available at <a href="http://www.clontech.com/products/families/creator/popups/sipage1.shtml">http://www.clontech.com/products/families/creator/popups/sipage1.shtml</a> .

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3-22-07

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FORM PTO-1449

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1636**U.S. PATENT DOCUMENTS**

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	AL						No
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	AM						No
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	AN						No
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	AO						No
							Yes
	AP						No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AA2	AR	72	CLONTECH, "Creator" pDNR-Dual Cloning Kit," CLONTECHniques 16:3 pages, CLONTECH (October 2001).
↓	AS	72	Collis, C.M., and Hall, R.M., "Expression of Antibiotic Resistance Genes in the Integrated Cassettes of Integrins," <i>Antimicrobial Agents and Chemotherapy</i> 39:155-162, American Society for Microbiology (1995).
↓	AT	72	Cormack, B., "Directed Mutagenesis Using the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., pp. 8.5.1-8.5.10 (1997).

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FORM PTO-100 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000G/RWE/BJD/JKM	APPLICATION NO. 09/855,797
	APPLICANT Hartley et al.	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	73	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Ty1 element retrotransposition," <i>Proc. Natl. Acad. Sci. USA</i> 88:936-940, National Academy of Sciences (1991).
↓	AS	73	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," <i>Nucl. Acids Res.</i> 27:1300-1307, Oxford University Press (March 1999).
AA2	AT	73	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42<sup>G12V</sup></i> and Dominant Negative <i>cdc42<sup>D118A</sup></i> Mutations," <i>J. Biol. Chem.</i> 273:849-858, The American Society for Biochemistry and Molecular Biology, Inc. (1998).

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*R. H. J.*

DATE CONSIDERED

3-22-04

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AAD ↓ AAD	AR	74	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," Appl. Environ. Microbiol. 65:523-528, American Society for Microbiology (February 1999).
	AS	74	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," Proc. Natl. Acad. Sci. USA 95:1356-1357, National Academy of Sciences (1998).
	AT	74	Dijkema, R., et al., "Cloning and Expression of the Chromosomal Immune Interferon Gene of the Rat," EMBO J. 4:761-767, IRL Press Limited (1985).

EXAMINER <i>A. Heppner</i>	DATE CONSIDERED 3-22-04
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	75	Enquist, L.W., and Weisberg, R.A., "The Red Plaque Test: A Rapid Method for Identification of Excision Defective Variants of Bacteriophage Lambda," Virology 72: 147-153, Academic Press, Inc. (1976).
	AS	75	Esposito, D., and Scocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," Nucl. Acids Res. 25:3605-3614, Oxford University Press (1997).
AA2	AT	75	Feinbaum, R., "Vectors Derived from Plasmids," in Current Protocols in Molecular Biology, Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 1.5.1-1.5.17 (1998).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA	AR	76	Flanagan, P.M., and Fennwald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by TN3 Resolvase," <i>J. Mol. Biol.</i> 206:295-304, Academic Press Limited (1989).
	AS	76	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (July 1999).
AA	AT	76	Francia, M.V., et al., "The IntI1 Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," <i>J. Bacteriol.</i> 181:6844-6849, American Society for Microbiology (1999).

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	77	Gateway™ Cloning Technology, Version 1, GIBCO BRL, Life Technologies Instruction Manual, pp. 1-60 (November 1999).
AS	77	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," J. Bacteriol. 164:918-921, American Society for Microbiology (1985).
AT	77	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , which Codes for Exoenzyme Levansucrase of <i>Bacillus Subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," J. Bacteriol. 153:1424-1431, American Society for Microbiology (1983).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	78	Gorman, C.M., et al. "The Rous Sarcoma Virus Long Terminal Repeat is a Strong Promoter when Introduced into a Variety of Eukaryotic Cells by DNA-mediated Transfection," Proc. Natl. Acad. Sci. USA 79:6777-6781, National Academy of Sciences (1982).
AS	78	Götz, F., et al., "Escherichia coli 30S mutants lacking protein S20 are defective in translation initiation," Biochim. Biophys. Acta 1050:93-97, Elsevier Science B.V. (1990).
AT	78	Green, R., and Noller, H.F., "Ribosomes and Translation," Ann. Rev. Biochem. 66:679-716, Annual Reviews, Inc. (1997).

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 3-22-04
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	79	Grindly, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).
↓	AS	79	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists, Inc. (1985).
AA2	AT	79	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the <i>Cin</i> Recombinase have a Relaxed Topological Specificity," <i>EMBO J.</i> 7:3991-3996, IRL Press Limited (1988).

EXAMINER

*A. Lipp*

DATE CONSIDERED

3-22-04

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA	AR	80	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," <i>Proc. Natl. Acad. Sci. USA</i> 97:8856-8861, National Academy of Sciences (August 2000).
↓	AS	80	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
↓	AT	80	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science Publishers (1984).

EXAMINER

*H. Heffner*

DATE CONSIDERED

*3-22-04*

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	81	Hochuli, E., et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent," <i>Bio/Technology</i> 6: 1321-1325, Nature Pub. Co. (1988).
AS	81	Hoess, R.H., and Abremski, K., "Interaction of the Bacteriophage P1 Recombinase Cre with the Recombining Site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).
AT	81	Iida, et al., "A site specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the c segment," <i>The EMBO Journal</i> . 1:1445-1453, IRL Press Ltd. (1982).

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 3-22-01
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	82	Iino, T., and Kutsukake, K., "Trans-acting Genes of Bacteriophages P1 and Mu Mediate Inversion of a Specific DNA Segment Involved in Flagellar Phase Variation of Salmonella," Cold Spring Harbor Symposia on Quantitative Biology 45:11-16, Cold Spring Harbor Laboratory Press (1981).
↓	AS	82	Jeong, J.-H., et al., "Cloning and nucleotide sequencing of the genes, rplU and rpmA, for ribosomal proteins L21 and L27 of Escherichia coli," DNA Seq. 4:59-67, Harwood Academic Publishers (1993).
↓	AT	82	Johnson, R.C., et al., "Isolation of the gene encoding the Hin recombinational enhancer binding protein," Proc. Natl. Acad. Sci. USA 85:3484-3488, National Academy of Sciences (1998).

EXAMINER <i>R. Keffe</i>	DATE CONSIDERED 3-22-04
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	AN						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	83	Kaniga, K., et al., "A Wide-host-range suicide Vector for Improving Reverse Genetics in Gram-negative Bacteria: Inactivation of the blaA Gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).
	AS	83	Katz, L., et al., "Site-specific recombination in <i>Escherichia coli</i> between the att sites of plasmid pSE211 from <i>Saccharopolyspora erythraea</i> ," <i>Mol. Gen. Genet.</i> 227:155-159, Springer-Verlag (1991).
AA2 ↓	AT	83	Kealey, J.T., et al., "Production of Polyketide Natural Product in Nonpolyketide-producing Prokaryotic and Eukaryotic Hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (January 1998).

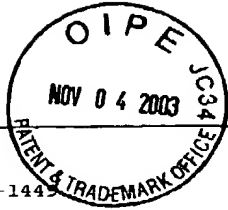
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*A. Lipp*

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	84	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioengineer.</i> 59:239-247, John Wiley & Sons (1998).
↓	AS	84	Kim, D.W., "Use of the Human Elongation Factor 1 $\alpha$ Promoter as a Versatile and Efficient Expression System," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).
AA2	AT	84	Kitts, P.A., and Nash, H.A., "Bacteriophage Lambda Site-Specific Recombination Proceeds with a Defined Order of Strand Exchanges," <i>J. Mol. Biol.</i> 204:95-107, Academic Press, Inc. (1988).

EXAMINER

*A. Kupp f.*

DATE CONSIDERED

3-22-09

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000G/RWE/BJD/JKM	APPLICATION NO. 09/855,797
	APPLICANT Hartley et al.	
	FILING DATE May 16, 2001	GROUP 1636

U. S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AA2	AR	85	Klippel, A., et al., "Isolation and characterization of unusual gin mutants," The EMBO Journal 7:3983-3989, IRL Press Inc. (1988).				
AA2	AS	85	Koch, C., et al., "Escherichia coli host factor for site-specific DNA inversion: Cloning and characterization of the fis gene," Proc. Natl. Acad. Sci. USA 85:4237-4241, National Academy of Sciences (1988).				
AA2	AT	85	Kolb, A.F., and Siddell, S.G., "Genomic Targeting with an MBP-Cre Fusion Protein," Gene 183:53-60, Elsevier Science B.V. (December 1996).				

EXAMINER <i>A. Lipp</i>	DATE CONSIDERED 3-22-04
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000G/RWE/BJD/JKM	APPLICATION NO. 09/855,797
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
AR	86	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," <i>Genome Res.</i> 8:666-672, Cold Spring Harbor Research Laboratory Press (1998).					
AS	86	Krautwald, S., and Baccarini, M., "Bacterially expressed murine CSF-1 possesses agonistic activity in its monomeric form," <i>Biochem. Biophys. Res. Commun.</i> 192: 720-727, Academic Press (1993).					
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EXAMINER <i>A. Lippert</i>	DATE CONSIDERED 3-22-04
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<i>AAJ</i>	AR	<u>87</u>	Langeveld, S.A., et al., "Expression of an <i>Escherichia coli</i> <i>phr</i> gene in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Gen. Genet.</i> 199:396-400, Springer-Verlag (1985).
<i>AAJ</i>	AS	<u>87</u>	Leslie, N.R., and Sherratt, D.J., "Site-specific Recombination in the Replication Terminus Region of <i>Escherichia coli</i> : Functional Replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (April 1995).
<i>AAJ</i>	AT	<u>87</u>	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (1995).

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*A. J. Hoff*DATE CONSIDERED  
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AAZ	AR	88	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).
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EXAMINER

*A. Hupp*

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ASD	AR	89	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Reviews</i> 63:21-53, American Society for Microbiology (March 1999).
↓	AS	89	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology, Inc. (1999).
ASD	AT	89	Mahillon, J., et al., "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26, Kluwer Academic Publishers (November 1994).

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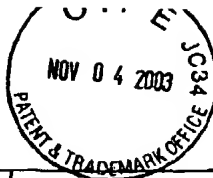
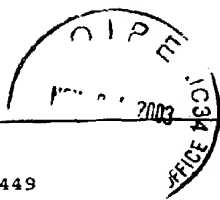
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>ASD</i>	AR	<u>90</u>	Mahillon, J., et al., "Subdivision of the Escherichia coli K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," Gene 223:47-54, Elsevier Science B.V. (1998).
<i>↓</i>	AS	<u>90</u>	Malynn, B.A., et al., "The scid Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," Cell 54:453-460, Cell Press (1988).
<i>↓</i> <i>ASD</i>	AT	<u>90</u>	Maniatis, T., et al., "Regulation of Inducible and Tissue-specific Gene Expression," Science 236:1237-1245, American Association for the Advancement of Science (1987).
EXAMINER <i>H. Hupp</i>			DATE CONSIDERED <i>3-22-04</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AAZ	AR	91	Mendiola, M.W., and de la Cruz, F., "Specificity of Insertion of IS91, an Insertion Sequence Present in $\alpha$ -haemolysis Plasmids of <i>Escherichia coli</i> ," Mol. Microbiol. 3:979-984, Blackwell Scientific Publications (1989).
	AS	91	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related $\beta$ -Lactamase Transposons," J. Bacteriol. 172:3745-3757, American Society for Microbiology (1990).
AAZ	AT	91	Metcalf, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZa</i> for Cloning, Mutagenesis, and Allele Replacement in Bacteria," Plasmid 35:1-13, Academic Press, Inc. (January 1996).

EXAMINER <i>H. Kupp</i>	DATE CONSIDERED 3.22.04
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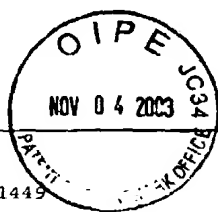
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	AP						Yes No

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AA2	AR	92	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," EMBO J. 19:5194-5201, Oxford University Press (October 2000).				
	AS	92	Meyer-Leon, L., et al., "Purification of the FLP Site-specific Recombinase by Affinity Chromatography and Re-examination of Basic Properties of the System," Nucl. Acids Res. 15:6469-6488, IRL Press (1987).				
AA2	AT	92	Miller, H.I., et al., "int-h: an int Mutation of Phage λ That Enhances Site-Specific Recombination," Cell 20: 721-729, MIT (1980).				

EXAMINER <i>H. Hartley</i>	DATE CONSIDERED 3-22-04
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AA2	AR	93	Mizushima, S., and Nagata, S., "pEF-BOS, a Powerful Mammalian Expression Vector," Nucl. Acids Res. 18:5322, Oxford University Press (1990).
AA2	AS	93	Murayama, N., et al., "Evidence for Involvement of <i>Escherichia coli</i> Genes pmBA, csrA and a Previously unrecognized Gene tldD, in the Control of DNA Gyrase by letD (ccdB) of Sex Factor F," J. Mol. Biol. 256:483-502, Academic Press Limited (1996).
AA2	AT	93	Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," Genesis 26:99-109, Wiley-Liss, Inc. (2000).

EXAMINER

*A. Hupp*

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AA2	AR	94	Nash, H., and Robertson, C.A., "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," EMBO J. 8:3523-3533, IRL Press Ltd. (1989).
↓	AS	94	Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews, Inc. (1984).
AA2	AT	94	Odell, J.T., et al., "Seed-specific Gene Activation Mediated by the Cre/lox Site Specific Recombination System," Plant Physiol. 106:447-458, American Society of Plant Physiologists (October 1994).

EXAMINER

*R. Lippert*

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AAZ	AR	95	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," Appl. Environ. Microbiol. 63:4713-4720, American Society for Microbiology (1997).
AAZ	AS	95	Okayama, H., and Berg, P., "Bacteriophage Lambda Vector for Transducing a cDNA Clone Library into Mammalian Cells," Molecular and Cellular Biology 5:1136-1142, American Society for Microbiology (1985).
AAZ	AT	95	Osuna, R., et al., "Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion by not 1 excision," EMBO J. 10:1593-1603, Oxford University Press (1991).

EXAMINER

*A. K. K. K.*

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AA2	AR	96	Pal, S.K., et al., "P1 Plasmid Replication. Role of Initiator Titration in Copy Number Control," J. Mol. Biol. 192:275-285, Academic Press Inc. (1986).
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AA2	AR	97	Perler, F.B., "InBase, the New England Biolabs Intein Database," Nucl. Acids Res. 27:346-347, Oxford University Press (January 1999).
↓	AS	97	Persson, M.A.A., "Combinatorial Libraries," Intern. Rev. Immunol. 10:153-63, Harwood Academic Publishers GmbH (1993).
AA2	AT	97	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," Mol. Cell. Biol. 15:6593-6600, American Society for Microbiology (1995).

EXAMINER

*R. Kipp f*

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AAZ	AR	98	Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," Nucl. Acids Res. 26:3445-3446, Oxford University Press (1998).
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*H. Lippert*

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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.285000G/RWE/BJD/JKM

APPLICATION NO.  
09/855,797

APPLICANT  
Hartley et al.

FILING DATE  
May 16, 2001

GROUP  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
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AA2	AR	99	Qin, M., et al., "Site-specific Cleavage of Chromosomes in vitro Through Cre-lox Recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (June 1995).
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	100	Sandhu, J.S., "Protein Engineering of Antibodies," Crit. Rev. Biotechnol. 12:437-62, CRC Press, Inc. (1992).
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AA2	AR	101	Sauer, B., and Henderson, N., "Site-specific DNA recombination in mammalian cells by the Cre recombinase of bacteriophage P1," <i>Proc. Natl. Acad. Sci. USA</i> 85: 5166-5170, National Academy of Sciences (1988).
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AA2	AR	102	Schnepf, E., et al., "Bacillus thuringiensis and Its Pesticidal Crystal Proteins," <i>Microbiol. Mol. Biol. Rev.</i> 62:775-806, American Society for Microbiology (1998).
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AA2	AR	105	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," <i>TIBS</i> 23:486-490, Elsevier Science (1998).
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May 16, 2001GROUP  
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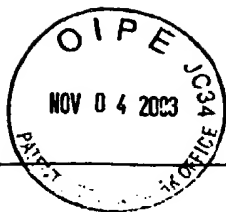
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09/855,797APPLICANT  
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May 16, 2001GROUP  
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AA2	AR	110	Co-Pending Non-Provisional United States Patent Application No. 09/517,466, Hartley et al., filed on 03/02/2000 (NOT PUBLISHED).
AA2	AS	110	Co-Pending Non-Provisional United States Patent Application No. 09/848,790, Hartley et al., filed on 08/29/2000 (NOT PUBLISHED).
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AAZ	AS	112	" " Co-Pending Non-Provisional United States Patent Application No. 10/454,793, Chesnut et al., filed on 06/05/2003 (NOT PUBLISHED).				
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